



SEQUENCE LISTING

RECEIVED
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TECH CENTER 1600/2900

<110> willson, Tracy
Nicola, Nicos A.
Hilton, Douglas J.
Metcalf, Donald
Zhang, Jian G.

<120> NOVEL HAEMOPOIETIN RECEPTOR AND GENETIC SEQUENCES
ENCODING SAME

<130> Davies cc

<140> 09/051,843
<141> 1998-06-29

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<170> PatentIn Ver. 2.0

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Met Ala Arg Pro Ala Leu Leu Gly Glu Leu Leu Val Leu Leu Leu Trp
1 5 10 15

acc gcc acc gtg nnn ggc caa gtt gcc gcg gcc aca gaa gtt cag cca 156
Thr Ala Thr Val Xaa Gly Gln Val Ala Ala Thr Glu Val Gln Pro
20 25 30

cct gtg acg aat ttg agc gtc tct gtc gaa aat ctc tgc acg ata ata 204
Pro Val Thr Asn Leu Ser Val Ser Val Glu Asn Leu Cys Thr Ile Ile
35 40 45

tgg acg tgg agt cct cct gaa gga gcc agt cca aat tgc act ctc aga 252
Trp Thr Trp Ser Pro Pro Glu Gly Ala Ser Pro Asn Cys Thr Leu Arg
50 55 60

tat ttt agt cac ttt gat gac caa cag gat aag aaa att gct cca gaa 300
Tyr Phe Ser His Phe Asp Asp Gln Gln Asp Lys Lys Ile Ala Pro Glu
65 70 75 80

act cat cgt aaa gag gaa tta ccc ctg gat gag aaa atc tgt ctg cag 348
Thr His Arg Lys Glu Glu Leu Pro Leu Asp Glu Lys Ile Cys Leu Gln
85 90 95

gtg ggc tct cag tgt agt gcc aat gaa agt gag aag cct agc cct ttg 396
Val Gly Ser Gln Cys Ser Ala Asn Glu Ser Glu Lys Pro Ser Pro Leu
100 105 110

gtg aaa aag tgc atc tca ccc cct gaa ggt gat cct gag tcc gct gtg 444
Val Lys Lys Cys Ile Ser Pro Pro Glu Gly Asp Pro Glu Ser Ala Val
115 120 125

act gag ctc aag tgc att tgg cat aac ctg agc tat atg aag tgt tcc 492
Thr Glu Leu Lys Cys Ile Trp His Asn Leu Ser Tyr Met Lys Cys Ser
130 135 140

tgg ctc cct gga agg aat aca agc cct gac aca cac tat act ctg tac 540
Trp Leu Pro Gly Arg Asn Thr Ser Pro Asp Thr His Tyr Thr Leu Tyr
145 150 155 160

tat tgg tac agc agc ctg gag aaa agt cgt caa tgt gaa aac atc tat 588
Tyr Trp Tyr Ser Ser Leu Glu Lys Ser Arg Gln Cys Glu Asn Ile Tyr
165 170 175

aga gaa ggt caa cac att gct tgt tcc ttt aaa ttg act aaa gtg gaa 636
Arg Glu Gly Gln His Ile Ala Cys Ser Phe Lys Leu Thr Lys Val Glu
180 185 190

cct nnn agt ttt gaa cat cag aac gtt caa ata atg gtc aag gat aat 684
Pro Xaa Ser Phe Glu His Gln Asn Val Gln Ile Met Val Lys Asp Asn
195 200 205

gct ggg aaa att agg cca tcc tgc aaa ata gtg tct tta act tcc tat 732
Ala Gly Lys Ile Arg Pro Ser Cys Lys Ile Val Ser Leu Thr Ser Tyr
210 215 220

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Val Lys Pro Asp Pro Pro His Ile Lys His Leu Leu Lys Asn Gly
225 230 235 240

gcc tta tta gtg cag tgg aag aat cca caa aat ttt aga agc aga tgc 828

GI
Cont

Ala	Leu	Leu	Val	Gln	Trp	Lys	Asn	Pro	Gln	Asn	Phe	Arg	Ser	Arg	Cys		
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Leu	Thr	Tyr	Glu	Val	Glu	Val	Asn	Asn	Thr	Gln	Thr	Asp	Arg	His	Asn		
			260					265					270				
att	tta	gag	gtt	gaa	gag	gac	aaa	tgc	cag	aat	tcc	gaa	tct	gat	aga	924	
Ile	Leu	Glu	Val	Glu	Glu	Asp	Lys	Cys	Gln	Asn	Ser	Glu	Ser	Asp	Arg		
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Asn	Met	Glu	Gly	Thr	Ser	Cys	Phe	Gln	Leu	Pro	Gly	Val	Leu	Ala	Asp		
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Ala	Val	Tyr	Thr	Val	Arg	Val	Arg	Val	Lys	Thr	Asn	Lys	Leu	Cys	Phe		
305				310						315					320		
gat	gac	aac	aaa	ctg	tgg	agt	gat	tgg	agt	gaa	gca	cag	agt	ata	ggg	1068	
Asp	Asp	Asn	Lys	Leu	Trp	Ser	Asp	Trp	Ser	Glu	Ala	Gln	Ser	Ile	Gly		
				325					330					335			
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Lys	Glu	Gln	Asn	Ser	Thr	Phe	Tyr	Thr	Thr	Met	Leu	Leu	Thr	Ile	Pro		
			340					345					350				
gtc	ttt	gtc	gca	gtg	gca	gtc	ata	atc	ctc	ctt	ttt	tac	ctg	aaa	agg	1164	
Val	Phe	Val	Ala	Val	Ala	Val	Ile	Ile	Leu	Leu	Phe	Tyr	Leu	Lys	Arg		
		355					360					365					
ctt	aag	atc	att	ata	ttt	cct	cca	att	cct	gat	cct	ggc	aag	att	ttt	1212	
Leu	Lys	Ile	Ile	Ile	Phe	Pro	Pro	Ile	Pro	Asp	Pro	Gly	Lys	Ile	Phe		
	370					375					380						
aaa	gaa	atg	ttt	gga	gac	cag	aat	gat	gat	acc	ctg	cac	tgg	aag	aag	1260	
Lys	Glu	Met	Phe	Gly	Asp	Gln	Asn	Asp	Asp	Thr	Leu	His	Trp	Lys	Lys		
385				390						395					400		
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Tyr	Asp	Ile	Tyr	Glu	Lys	Gln	Ser	Lys	Glu	Glu	Thr	Asp	Ser	Val	Val		
				405					410					415			
ctg	ata	gaa	aac	ctg	aag	aaa	gca	gct	cct	tgatggggag	aagtgatttc					1358	
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GI Cont

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Pro Val Thr₃₅ Asn Leu Ser Val Ser₄₀ Val Glu Asn Leu Cys₄₅ Thr Ile Ile
Trp Thr₅₀ Trp Ser Pro Pro Glu₅₅ Gly Ala Ser Pro Asn₆₀ Cys Thr Leu Arg
Tyr₆₅ Phe Ser His Phe Asp₇₀ Asp Gln Gln Asp Lys₇₅ Lys Ile Ala Pro Glu₈₀
Thr His Arg Lys Glu₈₅ Glu Leu Pro Leu Asp₉₀ Glu Lys Ile Cys Leu₉₅ Gln
Val Gly Ser Glu₁₀₀ Cys Ser Ala Asn Glu₁₀₅ Ser Glu Lys Pro Ser₁₁₀ Pro Leu
Val Lys Lys₁₁₅ Cys Ile Ser Pro Pro Glu Gly Asp Pro Glu₁₂₅ Ser Ala Val
Thr Glu₁₃₀ Leu Lys Cys Ile Trp₁₃₅ His Asn Leu Ser Tyr₁₄₀ Met Lys Cys Ser
Trp₁₄₅ Leu Pro Gly Arg Asn₁₅₀ Thr Ser Pro Asp Thr₁₅₅ His Tyr Thr Leu Tyr₁₆₀
Tyr Trp Tyr Ser Ser₁₆₅ Leu Glu Lys Ser Arg₁₇₀ Gln Cys Glu Asn Ile₁₇₅ Tyr
Arg Glu Gly Gln₁₈₀ His Ile Ala Cys Ser₁₈₅ Phe Lys Leu Thr Lys₁₉₀ Val Glu
Pro Xaa Ser₁₉₅ Phe Glu His Gln Asn₂₀₀ Val Gln Ile Met Val₂₀₅ Lys Asp Asn
Ala Gly₂₁₀ Lys Ile Arg Pro Ser₂₁₅ Cys Lys Ile Val Ser₂₂₀ Leu Thr Ser Tyr
Val₂₂₅ Lys Pro Asp Pro Pro₂₃₀ His Ile Lys His Leu₂₃₅ Leu Leu Lys Asn Gly₂₄₀
Ala Leu Leu Val Glu₂₄₅ Trp Lys Asn Pro Gln₂₅₀ Asn Phe Arg Ser Arg₂₅₅ Cys
Leu Thr Tyr Glu₂₆₀ Val Glu Val Asn Asn₂₆₅ Thr Gln Thr Asp Arg₂₇₀ His Asn
Ile Leu Glu₂₇₅ Val Glu Glu Asp Lys₂₈₀ Cys Gln Asn Ser Glu₂₈₅ Ser Asp Arg
Asn Met₂₉₀ Glu Gly Thr Ser Cys₂₉₅ Phe Gln Leu Pro Gly₃₀₀ Val Leu Ala Asp
Ala Val Tyr Thr Val Arg₃₁₀ Val Arg Val Lys Thr₃₁₅ Asn Lys Leu Cys Phe₃₂₀
Asp Asp Asn Lys Leu₃₂₅ Trp Ser Asp Trp Ser₃₃₀ Glu Ala Gln Ser Ile₃₃₅ Gly

Gl
cont

Lys Glu Gln Asn Ser Thr Phe Tyr Thr Thr Met Leu Leu Thr Ile Pro
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 Val Phe Val Ala Val Ala Val Ile Ile Leu Leu Phe Tyr Leu Lys Arg
 355 360 365
 Leu Lys Ile Ile Ile Phe Pro Pro Ile Pro Asp Pro Gly Lys Ile Phe
 370 375 380
 Lys Glu Met Phe Gly Asp Gln Asn Asp Asp Thr Leu His Trp Lys Lys
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gcc ggc ggc ggg ggc ggg ggc ggg ggc gcg cct acg gaa act cag cca 156
 Ala Gly Gly Gly Gly Gly Gly Gly Gly Ala Pro Thr Glu Thr Gln Pro
 20 25 30

cct gtg aca aat ttg agt gtc tct gtt gaa aac ctc tgc aca gta ata 204
 Pro Val Thr Asn Leu Ser Val Ser Val Glu Asn Leu Cys Thr Val Ile
 35 40 45

tgg aca tgg aat cca ccc gag gga gcc agc tca aat tgt agt cta tgg 252
 Trp Thr Trp Asn Pro Pro Glu Gly Ala Ser Ser Asn Cys Ser Leu Trp
 50 55 60

tat ttt agt cat ttt ggc gac aaa caa gat aag aaa ata gct ccg gaa 300
 Tyr Phe Ser His Phe Gly Asp Lys Gln Asp Lys Lys Ile Ala Pro Glu
 65 70 75 80

act cgt cgt tca ata gaa gta ccc ctg aat gag agg att tgt ctg caa 348
 Thr Arg Arg Ser Ile Glu Val Pro Leu Asn Glu Arg Ile Cys Leu Gln
 85 90 95

gtg ggg tcc cag tgt agc acc aat gag agt gag aag cct agc att ttg 396
 Val Gly Ser Gln Cys Ser Thr Asn Glu Ser Glu Lys Pro Ser Ile Leu
 100 105 110

gtt gaa aaa tgc atc tca ccc cca gaa ggt gat cct gag tct gct gtg 444
 Val Glu Lys Cys Ile Ser Pro Pro Glu Gly Asp Pro Glu Ser Ala Val
 115 120 125

act gag ctt caa tgc att tgg cac aac ctg agc tac atg aag tgt tct 492

G!
 Ant

Thr	Glu	Leu	Gln	Cys	Ile	Trp	His	Asn	Leu	Ser	Tyr	Met	Lys	Cys	Ser		
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Trp	Leu	Pro	Gly	Arg	Asn	Thr	Ser	Pro	Asp	Thr	Asn	Tyr	Thr	Leu	Tyr	160	
145					150					155							
tat	tgg	cac	aga	agc	ctg	gaa	aaa	att	cat	caa	tgt	gaa	aac	atc	ttt	588	
Tyr	Trp	His	Arg	Ser	Leu	Glu	Lys	Ile	His	Gln	Cys	Glu	Asn	Ile	Phe	175	
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Arg	Glu	Gly	Gln	Tyr	Phe	Gly	Cys	Ser	Phe	Asp	Leu	Thr	Lys	Val	Lys		
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gat	tcc	agt	ttt	gaa	caa	cac	agt	gtc	caa	ata	atg	gtc	aag	gat	aat	684	
Asp	Ser	Ser	Phe	Glu	Gln	His	Ser	Val	Gln	Ile	Met	Val	Lys	Asp	Asn		
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gca	gga	aaa	att	aaa	cca	tcc	ttc	aat	ata	gtg	cct	tta	act	tcc	cgt	732	
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gtg	aaa	cct	gat	cct	cca	cat	att	aaa	aac	ctc	tcc	ttc	cac	aat	gat	780	
Val	Lys	Pro	Asp	Pro	Pro	His	Ile	Lys	Asn	Leu	Ser	Phe	His	Asn	Asp	240	
225				230						235							
gac	cta	tat	gtg	caa	tgg	gag	aat	cca	cag	aat	ttt	att	agc	aga	tgc	828	
Asp	Leu	Tyr	Val	Gln	Trp	Glu	Asn	Pro	Gln	Asn	Phe	Ile	Ser	Arg	Cys		
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cta	ttt	tat	gaa	gta	gaa	gtc	aat	aac	agc	caa	act	gag	aca	cat	aat	876	
Leu	Phe	Tyr	Glu	Val	Glu	Val	Asn	Asn	Ser	Gln	Thr	Glu	Thr	His	Asn		
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gtt	ttc	tac	gtc	caa	gag	gct	aaa	tgt	gag	aat	cca	gaa	ttt	gag	aga	924	
Val	Phe	Tyr	Val	Gln	Glu	Ala	Lys	Cys	Glu	Asn	Pro	Glu	Phe	Glu	Arg		
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aat	gtg	gag	aat	aca	tct	tgt	ttc	atg	gtc	cct	ggg	gtt	ctt	cct	gat	972	
Asn	Val	Glu	Asn	Thr	Ser	Cys	Phe	Met	Val	Pro	Gly	Val	Leu	Pro	Asp		
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Thr	Leu	Asn	Thr	Val	Arg	Ile	Arg	Val	Lys	Thr	Asn	Lys	Leu	Cys	Tyr		
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gag	gat	gac	aaa	ctc	tgg	agt	aat	tgg	agc	caa	gaa	atg	agt	ata	ggg	1068	
Glu	Asp	Asp	Lys	Leu	Trp	Ser	Asn	Trp	Ser	Gln	Glu	Met	Ser	Ile	Gly		
				325					330					335			
aag	aag	cgc	aat	tcc	aca	ctc	tac	ata	acc	atg	tta	ctc	att	gtt	cca	1116	
Lys	Lys	Arg	Asn	Ser	Thr	Leu	Tyr	Ile	Thr	Met	Leu	Leu	Ile	Val	Pro		
			340					345					350				
gtc	atc	gtc	gca	ggg	gca	atc	ata	gta	ctc	ctg	ctt	tac	cta	aaa	agg	1164	
Val	Ile	Val	Ala	Gly	Ala	Ile	Ile	Val	Leu	Leu	Leu	Tyr	Leu	Lys	Arg		
		355					360					365					
ctc	aag	att	att	ata	ttc	cct	cca	att	cct	gat	cct	ggc	aag	att	ttt	1212	
Leu	Lys	Ile	Ile	Ile	Phe	Pro	Pro	Ile	Pro	Asp	Pro	Gly	Lys	Ile	Phe		
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G!
Cont

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 385 390 395 400
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 Tyr Asp Ile Tyr Glu Lys Gln Thr Lys Glu Thr Asp Ser Val Val 415
 405 410 415
 ctg ata gaa aac ctg aag aaa gcc tct cag tgatggagat aatttatttt 1358
 Leu Ile Glu Asn Leu Lys Lys Ala Ser Gln 420 425
 taccttcact gtgaccttga gaaga 1383

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 35 40 45
 Trp Thr Trp Asn Pro Pro Glu Gly Ala Ser Ser Asn Cys Ser Leu Trp
 50 55 60
 Tyr Phe Ser His Phe Gly Asp Lys Gln Asp Lys Lys Ile Ala Pro Glu
 65 70 75 80
 Thr Arg Arg Ser Ile Glu Val Pro Leu Asn Glu Arg Ile Cys Leu Gln
 85 90 95
 Val Gly Ser Gln Cys Ser Thr Asn Glu Ser Glu Lys Pro Ser Ile Leu
 100 105 110
 Val Glu Lys Cys Ile Ser Pro Pro Glu Gly Asp Pro Glu Ser Ala Val
 115 120 125
 Thr Glu Leu Gln Cys Ile Trp His Asn Leu Ser Tyr Met Lys Cys Ser
 130 135 140
 Trp Leu Pro Gly Arg Asn Thr Ser Pro Asp Thr Asn Tyr Thr Leu Tyr
 145 150 155 160
 Tyr Trp His Arg Ser Leu Glu Lys Ile His Gln Cys Glu Asn Ile Phe
 165 170 175
 Arg Glu Gly Gln Tyr Phe Gly Cys Ser Phe Asp Leu Thr Lys Val Lys
 180 185 190
 Asp Ser Ser Phe Glu Gln His Ser Val Gln Ile Met Val Lys Asp Asn
 195 200 205
 Ala Gly Lys Ile Lys Pro Ser Phe Asn Ile Val Pro Leu Thr Ser Arg
 210 215 220
 Val Lys Pro Asp Pro Pro His Ile Lys Asn Leu Ser Phe His Asn Asp
 225 230 235 240

G
 Ant

Asp Leu Tyr Val Gln Trp Glu Asn Pro Gln Asn Phe Ile Ser Arg Cys
 245 250 255
 Leu Phe Tyr Glu Val Glu Val Asn Asn Ser Gln Thr Glu Thr His Asn
 260 265 270
 Val Phe Tyr Val Gln Glu Ala Lys Cys Glu Asn Pro Glu Phe Glu Arg
 275 280 285
 Asn Val Glu Asn Thr Ser Cys Phe Met Val Pro Gly Val Leu Pro Asp
 290 295 300
 Thr Leu Asn Thr Val Arg Ile Arg Val Lys Thr Asn Lys Leu Cys Tyr
 305 310 315 320
 Glu Asp Asp Lys Leu Trp Ser Asn Trp Ser Gln Glu Met Ser Ile Gly
 325 330 335
 Lys Lys Arg Asn Ser Thr Leu Tyr Ile Thr Met Leu Leu Ile Val Pro
 340 345 350
 Val Ile Val Ala Gly Ala Ile Ile Val Leu Leu Leu Tyr Leu Lys Arg
 355 360 365
 Leu Lys Ile Ile Ile Phe Pro Pro Ile Pro Asp Pro Gly Lys Ile Phe
 370 375 380
 Lys Glu Met Phe Gly Asp Gln Asn Asp Asp Thr Leu His Trp Lys Lys
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G!
 Ant

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Val Gln Pro Pro Val Thr Xaa Leu Ser Val
20 25
